

DOC. AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/GB 02/05940A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B19/15 E21B19/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 285 386 A (APACHE CORP) 5 October 1988 (1988-10-05) = US 4 762 187 See abstract figures 2,3	1
A	WO 00 05483 A (PIETRAS BERND GEORG ;APPLETON ROBERT P (GB); WEATHERFORD LAMB (US)) 3 February 2000 (2000-02-03) See abstract claim 1; figures 4,5 = US 2 001 042 625	1
A	US 3 916 500 A (BROWN CICERO C) 4 November 1975 (1975-11-04) column 8, line 16 - line 41; figures 17-21 -/-	1

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

19 June 2003

Date of mailing of the international search report

25/06/2003

Name and mailing address of the ISA
European Patent Office, P.B. 5315 Patenthuis 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tx: 81 651 epo nl
Fax: (+31-70) 340-3010

Authorized officer

Dantinne, P

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Internati Application No
PCT/88 02/05940

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01 71154 A (KAISER TRENT MICHAEL VICTOR ; SHUTE DANIEL MARK (CA); SLACK MAURICE) 27 September 2001 (2001-09-27) see abstract. figure 14 ----- = US 6 732 822	1

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/GB 02/05940

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0285386	A	05-10-1988	US 4762187 A	09-08-1988
			AT 90141 T	15-06-1993
			AU 1400188 A	06-10-1988
			CA 1299166 C	21-04-1992
			DE 3881429 D1	08-07-1993
			EP 0285386 A2	05-10-1988
			NO 881445 A	03-10-1988
WO 0005483	A	03-02-2000	GB 2340856 A	01-03-2000
			AU 5047999 A	14-02-2000
			CA 2304664 A1	03-02-2000
			CA 2357544 A1	03-02-2000
			EP 1152119 A2	07-11-2001
			EP 1015729 A1	05-07-2000
			WO 0005483 A1	03-02-2000
			NO 20001393 A	15-05-2000
			NO 20013348 A	15-05-2000
			US 2001042625 A1	22-11-2001
US 3916500	A	04-11-1975	US 3792783 A	19-02-1974
WO 0171154	A	27-09-2001	CA 2301963 A1	22-09-2001
II			AU 4217801 A	03-10-2001
US 6732822			WO 0171154 A1	27-09-2001
			EP 1266119 A1	18-12-2002